AKSHAY K UPADHYAY

BS, IITM, Chennai | AI & ML Enthusiast

Email : akshay.cse23@gmail.com | +91 8887832311 | New Delhi Area, India | **LinkedIn** | **Github** | **Portfolio**

Seeking an internship opportunity in the field of software development or at the intersection of software and artificial intelligence. I aim to apply my skills to real-world projects, contribute to organisational growth, and gain valuable industry experience while further enhancing my expertise.

SKILLS:

Programming Languages: Python, Java (basic), Vue JS
Machine Learning: Supervised Learning [Classification, Regression], Unsupervised Learning [Clustering]
Machine Learning & Data Analysis: EDA, feature engineering, predictive modelling, handling skewed data, and model evaluation.
AI & Full-Stack Development: FastAPI, LangChain, LLM, RAG, API integration, automation, and data visualisation.
Statistics: Descriptive Statistics, Inferential Statistics (basics)
Mathematics: Linear Algebra
Database Management System(DBMS): SQL
Data Structure & Algorithm(DSA): Computational Thinking, Standard Data Structure, Algorithm & Design Techniques
Tools/Platforms: Kaggle, Colab, VS Code, GitHub, Vercel, Railway

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ACADEMIC QUALIFICATIONS

Years	Qualification	Specialization	Grades	Institute
2023-2027	BS	Data Science & Machine Learning	8.0 CGPA(Pursuing)	IITM (Indian Institute of Technology), Madras
2023	XII	Science & Mathematics	81.8 %	CBSE, New Delhi
2021	X	Science & Mathematics	90.0%	CBSE, New Delhi

PROJECTS

Data Analyst Agent
Aug 2025

Diploma Level - TDS - IITM, Chennai

Description: A FastAPI-based Data Analysis Web App powered by LangChain and Google's Generative AI to process data formats, provide intelligent analysis, and create visualisations through an interactive HTML/JavaScript interface.

- Successfully completed with a project score 100.
- Automated answering of business questions from raw datasets using LLMs, LangChain and Python execution. Validated on rigorous test cases, achieving 90+ percentage accuracy and a full project score.

Kaggle Challenge: Engage2Value: From Clicks to Conversions
Aug 2025

Diploma Level - MLP - IITM, Chennai

Description: The goal of this competition is to predict a customer's purchase value based on their multi-session behavior across digital touchpoints. The dataset captures anonymized user interactions such as browser types, traffic sources, device details, and geographical indicators. By modeling these patterns, participants will estimate the purchase potential of each user, helping optimize marketing and engagement strategies.

- Successfully completed with a Grade S (Score > 90/100) and secured rank 22 out of 1700+ participants.
- Built robust ML models (with advanced feature transformations and handling of skewed distributions) for predicting customer purchase value.

Household Services Web Application
Jan 2025

Diploma Level - MAD II - IITM, Chennai

Description: A household services platform connecting homeowners with service professionals. Features include service requests, bidding system, professional verification, rating system, and admin dashboard. Built with Flask backend, Vue.js frontend, and Redis for caching and task management.

- Successfully completed with a Grade A (Score > 80/100).
- Build a comprehensive household services platform enabling service professionals and homeowners to connect through direct hiring or bidding, with admin oversight, service verification, and performance tracking through ratings.

INTERESTS

- Artifical Intelligence, Programming, Data Science, Software Development, App Development, Badminton, Playing Cricket